Amendments to the Specification:

Please replace paragraphs [0004] and [0008] of the published application with the following corresponding amended paragraphs:

[0004] There is also a significant push to drive the cost of the overall handset down which limits the quantity of the processing which can be done on the received GPS signals to extract them from the noise. This also limits the quality of the various radio frequency (RF) oscillator components used in the ~~basket's~~ handset's receiver. Consequently, it can be expected that there will be some additional local oscillator (LO) noise that needs to be compensated for. Notably, there is no closed automatic frequency correction (AFC) loop possible during the GPS measurement as the input SNR is too low. The lack of AFC, and the use of low cost, low power, RF LO components, implies that there will Inevitably be a significant finite offset, drift, and some instability associated with the LO down conversion frequency.

[0008] The method and system of the present invention overcome the above by providing a way to demodulate the RF phase trajectory of a DS-SS correlation, using coherent integration for a ~~small time~~ measurement epoch of arbitrary duration. The receiver in the present invention downshifts an incoming signal using a local oscillator. The receiver then despreads the signal.